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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,275	07/22/2003	Robin Stevenson	GP-301954	7491

7590 08/11/2004

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EXAMINER

SAETHER, FLEMMING

ART UNIT PAPER NUMBER

3677

DATE MAILED: 08/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/624,275

Applicant(s)

STEVENSON ET AL.

Examiner

Flemming Saether

Art Unit

3677

NW

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 4 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☐ Responsive to communication(s) filed on _____.

2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-14 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-14 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6, 8-10, 12, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Newton (US 3,772,957) in view of Lacy (US 4,958,971). Newton discloses a rivet for joining two pieces (S) comprising a head (20) at a first end; a tubular body (18) having a first portion extending through the pieces and a second portion of a one quarter the total length extending beyond the pieces (see Fig. 8); a mandrel (10) having an enlarged head (16) engaging a second end of the tubular body and; an adhesive (24) between the mandrel the body so that upon the mandrel head deforming the second end to set the rivet, the adhesive is expelled through holes (28) in the tubular body. Newton shows the rivet being a self-drilling type and discloses that it may be of a conventional type (last paragraph of the Summary and first paragraph of the Description) but does not disclose the tubular body having weakened regions or bands. Lacey discloses a rivet having weakened regions or bands (as will be discussed) on a second portion (33) of a tubular body (11) deforming to form folds as the second end makes a head against joining pieces (see Fig. 2). The weakened regions are disclosed as a softened material between grooves 27-29 (column 2, lines 63+) and alternatively as areas of thinned material (column 4, lines 64, 65). At the time the invention was made, it would have been obvious to form the rivet tubular body of

Newton with weakened regions of bands as disclose in is order to improve the deformation of the rivet body to accommodate different thicknesses of the two pieces for greater versatility of the rivet.

Claims 7 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over ~~Newton in view of Lacey as applied to claims 1, 3 and 11 above, and further in view of~~ Eklund (US 2,324,142). Modified Newton does not disclose the weakened region or band formed as a corrugation. Eklund discloses a rivet tubular body provided with corrugations (17, 19) to from weakened regions or bands. At the time the invention was made, it would have been obvious for one of ordinary skill in the art to form the weakened regions or bands of modified Newton as corrugations as disclosed in Eklund corrugation would be easier to manufacture and as such be more economical.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

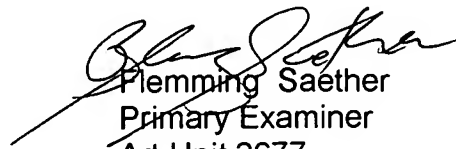
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Flemming Saether whose telephone number is 703-308-0182. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 703-306-4115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Flemming Saether
Primary Examiner
Art Unit 3677